

WEEK 36

Work Order ID 165512

Thursday, August 24, 2017 10:25:57 AM

\*165512\*

Page 1

Item ID: D4021-3 Accept \*N900040100\* Setup Start \*NS1\*  
Revision ID: Stop \*NS2\*  
Item Name: Data Plate  
Start Date: 8/24/2017 Start Qty: 12.00 \*12\* Cust Item ID:  
Required Date: 8/28/2017 Req'd Qty: 12.00 \*12\* Customer:  
Reference:

Approvals: Process Plan: WY <sup>DAS</sup> 21 <sub>9-89</sub> Date: AUG 24 2017 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start \*NR1\*  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop \*NR2\*

| Sequence ID/<br>Work Center ID | Operation<br>Description | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| Draw Nbr                       | Revision Nbr             |                      |         |        |              |               |               |                  |                |
| D4021                          | B                        |                      |         |        |              |               |               |                  |                |

100 0.00

\*100\*

Shear Memo 1.50

Shear  
1-Cut as per dwg D4021  
\*\*\*\*\*SEE FLAT PATTERN. 7.00" X 4.42" \*\*\*\*\*  
2- Break sharp corner as per dwg D4021  
3-Deburr as required

12 X D.M.L. 2017-8-28

120 QC5- Inspect part completeness to step on W/O 0.00

\*120\*

QC Memo 0.24

Quality Control

12 <sup>DAS</sup> 38 <sub>9-89</sub>  
AUG 29 2017

**Work Order ID 165512**

Thursday, August 24, 2017 10:25:57 AM

**\*165512\***

Page 2

Item ID: D4021-3 Accept **\*N900040100\*** Setup Start **\*NS1\***  
Revision ID: Stop **\*NS2\***  
Item Name: Data Plate  
Start Date: 8/24/2017 Start Qty: 12.00 **\*12\*** Cust Item ID:  
Required Date: 8/28/2017 Req'd Qty: 12.00 **\*12\*** Customer:  
Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

| Sequence ID/<br>Work Center ID                | Operation<br>Description                                       | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code      | Accept<br>Qty              | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp                   |
|-----------------------------------------------|----------------------------------------------------------------|----------------------|---------|--------|-------------------|----------------------------|---------------|------------------|----------------------------------|
| 130<br><b>*130*</b><br>Brake NC<br>Brake NC   | Bend as per dwg<br><br>Memo                                    | 0.14<br><br>0.41     |         |        | DAS<br>30<br>9-89 | <u>12</u>                  |               |                  | AUG 30 2017                      |
| 140<br><b>*140*</b><br>QC<br>Quality Control  | QC5- Inspect part completeness to step on W/O<br><br>Memo      | 0.00<br><br>0.24     |         |        |                   | <u>12</u>                  |               |                  | AUG 31 2017<br>DAS<br>38<br>9-89 |
| 150<br><b>*150*</b><br>Packaging<br>Packaging | Identify as per dwg & Stock Location: <u>W2004</u><br><br>Memo | 0.00<br><br>0.12     |         |        |                   | <u>12</u> DAS<br>6<br>9-89 |               |                  | SEP 01 2017                      |

**Work Order ID 165512**

Thursday, August 24, 2017 10:25:57 AM

**\*165512\***

Page 3

Item ID: D4021-3 Accept **\*N900040100\*** Setup Start **\*NS1\***  
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Start Date: 8/24/2017 Start Qty: 12.00 **\*12\*** Cust Item ID:  
Required Date: 8/28/2017 Req'd Qty: 12.00 **\*12\*** Customer:  
Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

| Sequence ID/<br>Work Center ID | Operation<br>Description                    | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty     | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|---------------------------------------------|----------------------|---------|--------|--------------|---------------|-------------------|------------------|----------------|
| 160                            | QC21- Final Inspection - Work Order Release | 0.00                 |         |        |              |               |                   |                  |                |
| <b>*160*</b>                   |                                             |                      |         |        |              |               | DAS<br>21<br>9-89 | SEP 0 5 2017     |                |
| QC                             | Memo                                        | 1.20                 |         |        |              |               |                   |                  |                |
| Quality Control                |                                             |                      |         |        |              |               |                   |                  |                |

DAS  
21  
9-89

SEP 0 1 2017

# Picklist Print

Thursday, August 24, 2017 10:25:56 AM

Page 1

Work Order ID: 165512

**\*165512\***

Parent Item: D4021-3

**\*D4021-3\***

Parent Item Name: Data Plate

Start Date: 8/24/2017

Required Date: 8/28/2017

Start Qty: 12.00

Required Qty: 12.00

Comments: IPP RevA: new issue DD 09.11.25 verified by:EC IPP RevB:  
new part DD 09.12.03 verified by:EC IPP Rev:C as per dwg  
REV.A DD 10.02.22 verified by:EC IPP Rev:D as per dwg revB DD  
10.04.20 verified by:EC

| Component Item ID/<br>Item Name | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| M304S20GA                       |                        | Purchased     | No          |                     |                  | 100             | sf                 | 88.7600        | 0.1944      | 2.455579     |               |                |        |

**\*M304S20GA\***

304/316 .040 Sheet

**\*\***

*DML 2017 8-28*

Location

Loc Qty

Loc Code

MAT020

88.76

*137762*

*4*

m137513

7.5

m137762

7.6

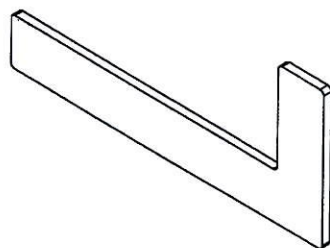
m137980

8.38

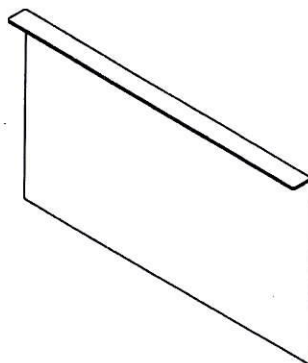
m138175

65.28

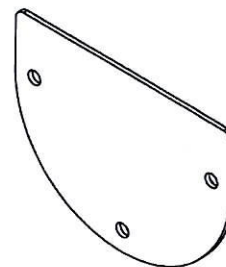
8 7 6 5 4 3 2 1



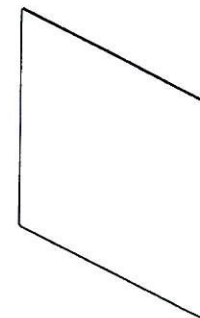
**D4021-1 HANDLE PLATE**



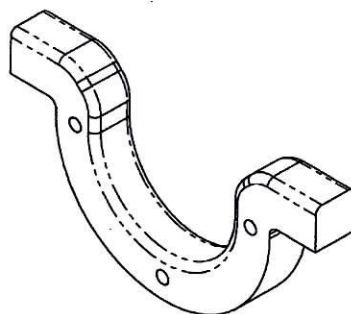
**D4021-3 DATA PLATE**



**D4021-5 BLANKING PLATE**



**D4021-11 INSTRUCTIONS PLATE**



**D4021-7 HOOP**



**D4021-9 BUSHING**

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 165512

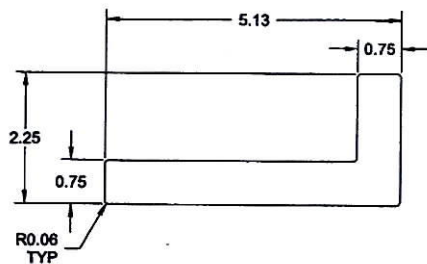
CMY AUG 24 2017

**RELEASED**  
2010-04-14  
MP

| B          | POWDER COAT SPEC ADDED TO NOTE 2 (A8-2) | JPH                                                                                                                                                                                                                                                                                             | 10.04.06     |
|------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| A          | NEW ISSUE                               | JPH                                                                                                                                                                                                                                                                                             | 10.01.29     |
| REV.       | DESCRIPTION                             | BY                                                                                                                                                                                                                                                                                              | DATE         |
| DESIGN     | AJS                                     | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                        |              |
| DRAWN      | JPH                                     |                                                                                                                                                                                                                                                                                                 |              |
| CHECKED    |                                         | DRAWING NO.                                                                                                                                                                                                                                                                                     | REV. B       |
| MFG. APPR. |                                         | D4021                                                                                                                                                                                                                                                                                           | SHEET 1 OF 3 |
| APPROVED   |                                         | TITLE                                                                                                                                                                                                                                                                                           | SCALE        |
| DE APPR.   |                                         | MISC PARTS - 350 BASKET                                                                                                                                                                                                                                                                         | NTS          |
| DATE       | 10.04.06                                | <small>COPYRIGHT © 2010 BY DART AEROSPACE LTD<br/> THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE REPRODUCED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small> |              |

8 7 6 5 4 3 2 1

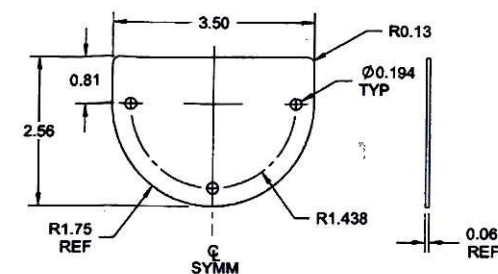




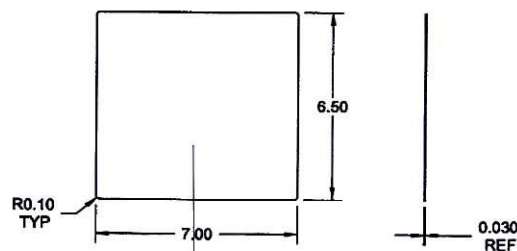
**D4021-1 HANDLE PLATE**



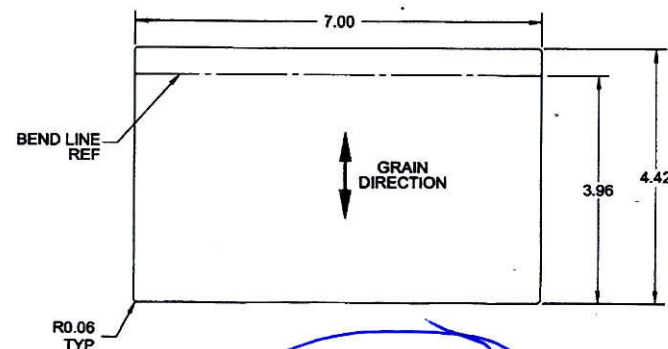
**D4021-3 DATA PLATE**  
MAKE FROM D4021-3F



**D4021-5 BLANKING PLATE**



**D4021-11 INSTRUCTIONS PLATE**



**D4021-3F DATA PLATE**  
FLAT PATTERN

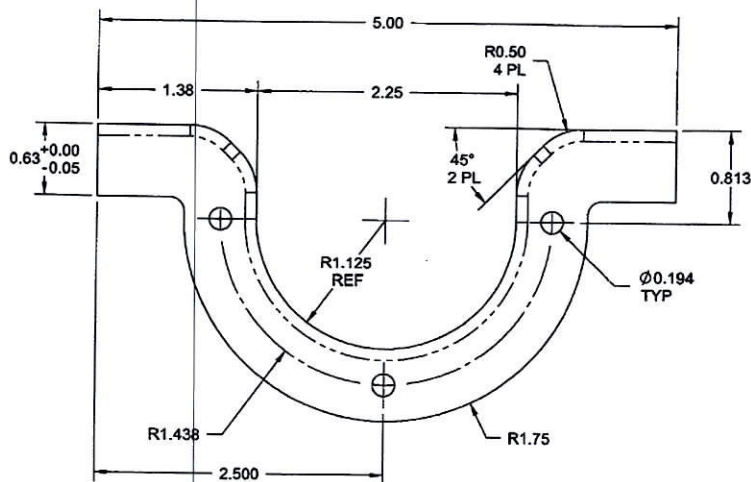
**RELEASED**  
2010-04-14  
ND

**NOTES:**

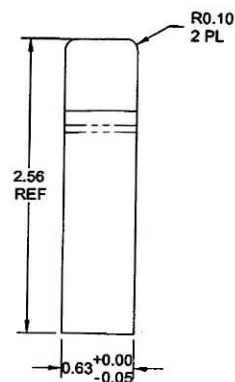
- 1) MATERIAL -1: 304/316 STAINLESS STEEL SHEET ANNEALED 2B FINISH, PER MIL-S-5059 OR AMS 5513/5524 OR ASTM A240 OR ASME SA240 REF DART SPEC M304S11GA
- 3F: 304/316 STAINLESS STEEL SHEET ANNEALED 2B FINISH, PER MIL-S-5059 OR AMS 5513/5524 OR ASTM A240 OR ASME SA240 REF DART SPEC M304S20GA
- 5: 303/304/316 STAINLESS STEEL SHEET ANNEALED 2B FINISH, PER MIL-S-5059 OR AMS 5513/5524 OR ASTM A240 OR ASME SA240 REF DART SPEC M303S16GA OR M304S16GA
- 11: 304/316 STAINLESS STEEL SHEET ANNEALED 2B FINISH, PER MIL-S-5059 OR AMS 5513/5524 OR ASTM A240 OR ASME SA240 REF DART SPEC M304S22GA

- 2) FINISH : -1/-3/-11: NONE
- 5: POWDER COAT WHITE (4.3.5.2) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT -1: 0.18 lbs  
-3: 0.35 lbs  
-5: 0.14 lbs  
-11: 0.39 lbs

|                                                                                                                                                                                                                                 |                                                                                       |                                        |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|--------------|
| DESIGN                                                                                                                                                                                                                          | AJS                                                                                   | <b>DART AEROSPACE LTD</b>              |              |
| DRAWN                                                                                                                                                                                                                           | JPH                                                                                   | HAWKESBURY, ONTARIO, CANADA            |              |
| CHECKED                                                                                                                                                                                                                         |                                                                                       | DRAWING NO.                            | REV. B       |
| MFG. APPR.                                                                                                                                                                                                                      |  | D4021                                  | SHEET 2 OF 3 |
| APPROVED                                                                                                                                                                                                                        |                                                                                       | TITLE                                  | SCALE        |
| DE APPR.                                                                                                                                                                                                                        |  | MISC PARTS - 350 BASKET                | NTS          |
| DATE                                                                                                                                                                                                                            | 10.04.06                                                                              | COPYRIGHT © 2010 BY DART AEROSPACE LTD |              |
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**D4021-7 HOOP**



**D4021-9 BUSHING**

**RELEASED**  
2010-04-14  
NR

**NOTES:**

- 1) MATERIAL-7: 304/316 STAINLESS STEEL BAR, PER ASTM A276  
REF DART SPEC M304B
- 9: 304/316 STAINLESS STEEL ROUND BAR, PER ASTM A276  
REF DART SPEC M304R
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT -7: 0.80 lbs  
-9: 0.02 lbs

|                                                                                                                                                                                                                                 |                    |                                        |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------|--------------|
| DESIGN                                                                                                                                                                                                                          | AJS                | <b>DART AEROSPACE LTD</b>              |              |
| DRAWN                                                                                                                                                                                                                           | JPH                | HAWKESBURY, ONTARIO, CANADA            |              |
| CHECKED                                                                                                                                                                                                                         | <i>[Signature]</i> | DRAWING NO.                            | REV. B       |
| MFG. APPR.                                                                                                                                                                                                                      | <i>[Signature]</i> | D4021                                  | SHEET 3 OF 3 |
| APPROVED                                                                                                                                                                                                                        | <i>[Signature]</i> | TITLE                                  | SCALE        |
| DE APPR.                                                                                                                                                                                                                        | <i>[Signature]</i> | MISC PARTS - 350 BASKET                | NTS          |
| DATE                                                                                                                                                                                                                            | 10.04.06           | COPYRIGHT © 2010 BY DART AEROSPACE LTD |              |
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Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO36550

Purchase Order Date 6/2/2017

PO Print Date 6/5/2017

Page Number 4 of 7

**Order From :**

VC-CAM002

**Ship To :** DART AEROSPACE LTD

ACIER OUELLETTE INC.  
935 BOUL. DU HAVRE  
VALLEYFIELD, QC J6S 5L1  
CA

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 800 667 4248

**Ship To Contact**

**Ship To Phone**

**Ship Via:** Yours ppd

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms** Net 30

**Currency** CAD

**FOB** FCA - (Free Carrier)

|   |              |                      |                             |              |        |          |
|---|--------------|----------------------|-----------------------------|--------------|--------|----------|
| 8 | M304R1.000 ✓ | 304 round bar 1.00 ✓ | 6/8/2017<br>Yes<br>6/8/2017 | 12.00 ✓<br>f | \$8.49 | \$101.87 |
|---|--------------|----------------------|-----------------------------|--------------|--------|----------|

MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276

(NOTE: AISI 303 NOT ACCEPTABLE)

**Line Total:** \$101.87

|   |             |                      |                             |               |        |          |
|---|-------------|----------------------|-----------------------------|---------------|--------|----------|
| 9 | M304S20GA ✓ | 304/316 .040 Sheet ✓ | 6/8/2017<br>Yes<br>6/8/2017 | 64.00 ✓<br>sf | \$3.91 | \$250.14 |
|---|-------------|----------------------|-----------------------------|---------------|--------|----------|

PURCHASE MATERIAL: AISI 304/316 SS SHEET  
ANNEALED  
SPECIFICATION: MIL-S-5059  
OR AMS 5513 (304)  
OR AMS 5524 (316)  
ORASTMA240  
OR ASME SA240

**Line Total:** \$250.14

**PO Instructions:** quotation sou0036564

**Note:**

6/5/2017



# Purchase Order Receipt Listing

Page 1 of 2

Monday, June 12, 2017 1:21:39 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO36550 Receipt Dates from 6/9/2017 to 6/9/2017 All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

| Purchase Order ID/<br>Curr Type                            | Line Nbr/<br>Insp Req | Project ID | Reference/<br>Description/<br>Cert Std | PO U/M /<br>Stock U/M | Required Date<br>Required Qty | Recv Date/<br>Recv Emp | Recv Qty<br>(PO U/M) | Cost Per Unit/<br>Recv Value | Inspected Qty/<br>Rejected Qty<br>(PO U/M) | MRB Qty/<br>MRB Reject Qty | Book Amt |
|------------------------------------------------------------|-----------------------|------------|----------------------------------------|-----------------------|-------------------------------|------------------------|----------------------|------------------------------|--------------------------------------------|----------------------------|----------|
| <b>VendorID/Vendor Name</b> VC-CAM002 Acier Ouellette Inc. |                       |            |                                        |                       |                               |                        |                      |                              |                                            |                            |          |
| PO36550                                                    | 1                     |            | M1010S.125 <del>114</del> sf           |                       | 6/8/2017                      | 6/9/2017               | 32.0000 ✓            | \$1.96                       | 0.0000                                     | 0                          | \$62.75  |
| CAD                                                        | No                    |            | 1010-1025 sheet .125 sf                |                       | 32.0000                       | PLOU01                 |                      | \$62.75                      | 0.0000                                     | 0                          |          |
|                                                            |                       |            | m137762                                |                       |                               |                        |                      |                              |                                            |                            |          |
|                                                            | 3                     |            | M174R0.750 f                           |                       | 6/8/2017                      | 6/9/2017               | 13.4000 ✓            | \$6.05                       | 0.0000                                     | 0                          | \$81.06  |
|                                                            | No                    |            | 17-4 round bar .750 f                  |                       | 12.0000                       | PLOU01                 |                      | \$81.06                      | 0.0000                                     | 0                          |          |
|                                                            |                       |            | m137762                                |                       |                               |                        |                      |                              |                                            |                            |          |
|                                                            | 4                     |            | M2024T3S.050 sf                        |                       | 6/8/2017                      | 6/9/2017               | 48.0000 ✓            | \$5.15                       | 0.0000                                     | 0                          | \$247.09 |
|                                                            | No                    |            | 2024-T3 .050 sheet sf                  |                       | 48.0000                       | PLOU01                 |                      | \$247.09                     | 0.0000                                     | 0                          |          |
|                                                            |                       |            | m137762                                |                       |                               |                        |                      |                              |                                            |                            |          |
|                                                            | 5                     |            | M303R0.500 <del>492</del> f            |                       | 6/8/2017                      | 6/9/2017               | 12.0000 ✓            | \$1.91                       | 0.0000                                     | 0                          | \$22.88  |
|                                                            | No                    |            | 303 Round Bar 0.500" f                 |                       | 12.0000                       | PLOU01                 |                      | \$22.88                      | 0.0000                                     | 0                          |          |
|                                                            |                       |            | m137762                                |                       |                               |                        |                      |                              |                                            |                            |          |
|                                                            | 6                     |            | M304B0.250X4.000 f                     |                       | 6/8/2017                      | 6/9/2017               | 12.0000 ✓            | \$7.35                       | 0.0000                                     | 0                          | \$88.23  |
|                                                            | No                    |            | 304 BAR .250 x 4.00 f                  |                       | 12.0000                       | PLOU01                 |                      | \$88.23                      | 0.0000                                     | 0                          |          |
|                                                            |                       |            | m137762                                |                       |                               |                        |                      |                              |                                            |                            |          |
|                                                            | 7                     |            | M304B0.500X2.500 f                     |                       | 6/8/2017                      | 6/9/2017               | 12.1000 ✓            | \$9.57                       | 0.0000                                     | 0                          | \$115.77 |
|                                                            | No                    |            | 304 BAR .500 x 2.50 f                  |                       | 12.0000                       | PLOU01                 |                      | \$115.77                     | 0.0000                                     | 0                          |          |
|                                                            |                       |            | m137762                                |                       |                               |                        |                      |                              |                                            |                            |          |
|                                                            | 8                     |            | M304R1.000 <del>797</del> f            |                       | 6/8/2017                      | 6/9/2017               | 12.0000 ✓            | \$6.29                       | 0.0000                                     | 0                          | \$75.46  |
|                                                            | No                    |            | 304 round bar 1.00 f                   |                       | 12.0000                       | PLOU01                 |                      | \$75.46                      | 0.0000                                     | 0                          |          |
|                                                            |                       |            | m137762                                |                       |                               |                        |                      |                              |                                            |                            |          |
|                                                            | 9                     |            | M304S20GA sf                           |                       | 6/8/2017                      | 6/9/2017               | 64.0000 ✓            | \$2.89                       | 0.0000                                     | 0                          | \$185.28 |
|                                                            | No                    |            | 304/316 .040 Sheet sf                  |                       | 64.0000                       | PLOU01                 |                      | \$185.28                     | 0.0000                                     | 0                          |          |
|                                                            |                       |            | m137762                                |                       |                               |                        |                      |                              |                                            |                            |          |
|                                                            | 10                    |            | M6061T6B0.375X01. f                    |                       | 6/8/2017                      | 6/9/2017               | 40.0000 ✓            | \$0.83                       | 0.0000                                     | 0                          | \$33.19  |
|                                                            | No                    |            | 000                                    |                       |                               |                        |                      |                              |                                            |                            |          |
|                                                            |                       |            | 6061T6 BAR .375 x f                    |                       | 40.0000                       | PLOU01                 |                      | \$33.19                      | 0.0000                                     | 0                          |          |
|                                                            |                       |            | 1.00                                   |                       |                               |                        |                      |                              |                                            |                            |          |
|                                                            |                       |            | m137762                                |                       |                               |                        |                      |                              |                                            |                            |          |



## DELIVERY - USINE

C000033949

**ACIER OUELLETTE INC.**

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

**Customer N°** CLI0001056  
**Date** 2017/06/05  
**Delivery date** **2017/06/09**  
**Your order N°** 36550  
**Processed by** Josianne Bourdon  
**Salesman**  
**Carrier** OUELLETTE VALLEYFIELD  
**Credit Terme** NET 30  
**Page** 2

**Billed to**

DART AEROSPACE LTD  
DART AEROSPACE LTD  
1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

**Shipped to**

DART AEROSPACE LTD  
  
, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

**Instruction** F-M

**Delivery Route** 5

| Product Description                                                                              | Weight | Qty   | U/M       | PCS NB |     |     | Internal Use Only |   |   |   |     |
|--------------------------------------------------------------------------------------------------|--------|-------|-----------|--------|-----|-----|-------------------|---|---|---|-----|
|                                                                                                  |        |       |           | CMD    | EXP | B/O | IN                | I | S | C | OUT |
| 5 FLAT SS 1/4 X 4 SS304 (12R)<br>FSS-144-12 3521<br><i>1 X 12' R/L HEAT: 512698</i>              | 40.80  | 12.00 | PI_\$CLB  |        |     |     |                   |   |   |   |     |
| 6 FLAT SS 1/2 X 2 1/2 SS304 (12R)<br>FSS-12212-12 NS00001700<br><i>1 X 12' R/L HEAT: TR01381</i> |        | 1.00  | UN_\$UN   |        |     |     |                   |   |   |   |     |
| 7 ROUND SS 1 304 (12R)<br>RSS-1-12 5712<br><i>1 X 12' R/L HEAT: Y9X8</i>                         | 32.04  | 12.00 | PI_\$CLB  |        |     |     |                   |   |   |   |     |
| 8 SHEET SS 20G SS304-2B (4 X 8)<br>FESS-20G483042B 3430<br><i>2 X 4' X 8' HEAT: 222X</i>         | 100.48 | 64.00 | PI2_\$CLB |        |     |     |                   |   |   |   |     |

NIR : R-109516-6

Next Page...





North American Stainless Canada Inc.  
740 Imperial Road North  
Guelph, ON N1K1Z3  
Canada

# METALLURGICAL TEST REPORT

6870 Highway 42 East  
Ghent, KY 41045-9615  
(502) 347-6000

Certificate: 245735 1 Mail To:

Ship To:

Date: 12/12/2016 Page: 1

Customer: 007035 501

Steel: 304

Finish: 2B

Your Order: 785809

NAS Order: PN 0072898 04

Corrosion: ASTM A262/15 A; 130Bend-OK

## PRODUCT DESCRIPTION:

STAINLESS STEEL COIL, C.A. ANNEALED & PICKLED; UNS 30400  
ASTM A240 150, 4400/15, 4400/15, 4400/15, 4400/15, 4400/15  
CHEM ONLY ON FOLLOWING ASTM: A276/15, A479/15, A484/15, A511/15  
CHEM ONLY ON FOLLOWING ASTM: A312/13, A479/13  
AMS 5513J MARK; MIL-8-5859D AMENDE (X CHROM MEAS)  
NACE MR0175/ISO 15156-3/2409 A; MR0103/07/005760D-A X HAS PERM  
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

## REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.  
EN 10204:2004 3.1; MoHS 1 & 2 Compliant  
Material is Free of Radioactive Contamination  
Steel Making Process: EAF, AOD, & Cont. Casting  
Product Mfg. by a Quality Mgt. Sys. in Conf. w/ISO 9001  
\*Melted & Manufactured in the USA; Mat'l is DPAAS Compliant

| Product Id | Coil #   | Slid # Thickness | Width   | Weight | Length | Mark | Pieces | Commodity Code |
|------------|----------|------------------|---------|--------|--------|------|--------|----------------|
| 04222X A   | 04222X A | .9360            | 48.0000 | 15.550 | COIL   | 14   | 1      | 74237403       |

CHEMICAL ANALYSIS CM(Country of Matl) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323  
Chemical Analysis per ASTM A751/14a

| HEAT | CM | C     | %       | CR    | %      | CU    | %     | NI     | %     | MO    | % | SI | % | S | % |
|------|----|-------|---------|-------|--------|-------|-------|--------|-------|-------|---|----|---|---|---|
| 222X | US | .0437 | 18.0080 | .3695 | 1.7840 | .2635 | .0695 | 8.0280 | .0305 | .9010 |   |    |   |   |   |
|      |    |       |         |       |        |       |       |        |       |       |   |    |   |   |   |
|      |    |       |         |       |        |       |       |        |       |       |   |    |   |   |   |
|      |    |       |         |       |        |       |       |        |       |       |   |    |   |   |   |

## MECHANICAL PROPERTIES

| Product Id# | Coil #   | 1/4 | 1/2 | UTS    | 20C   | 20C   | YS    | 20C   | % ELONG | % Hard | Hard | 2B | Tail | Hard | Grain | NO. |
|-------------|----------|-----|-----|--------|-------|-------|-------|-------|---------|--------|------|----|------|------|-------|-----|
| 04222X A    | 04222X A | F   | F   | 103.42 | 56.92 | 47.45 | 89.50 | 89.00 | 10.00   |        |      |    |      |      |       |     |

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items listed and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical  
Dept. Mgr.

KRIS LARK

12/12/2016

#3430

47574

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304S209A  
 DATE: JUN 13 2017

PO / BATCH NO.: 036550/M137762

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 6459Ft  
 QUANTITY INSPECTED: 6459Ft  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .046  
 THICKNESS RECEIVED: .040  
 SHEET SIZE ORDERED: 4x8  
 SHEET SIZE RECEIVED: 4x8

| DESCRIPTION                                        | NCR<br>(Check<br>Y/N) | COMMENTS  |
|----------------------------------------------------|-----------------------|-----------|
| SURFACE DAMAGE                                     | Y (N)                 |           |
| CORRECT FINISH                                     | (Y) N                 |           |
| CORROSION                                          | Y (N)                 |           |
| CORRECT GRAIN DIRECTION                            | (Y) N                 |           |
| CORRECT MATERIAL PER M-DRAWING                     | (Y) N                 | ASTM A240 |
| CORRECT THICKNESS                                  | (Y) N                 |           |
| PHOTO REQUIRED                                     | Y (N)                 |           |
| CORRECT REF # TO LINK CERT                         | (Y) N                 | Ht #222X  |
| CORRECT MATERIAL IDENTIFICATION                    | (Y) N                 |           |
| CORRECT M# ON THE MATERIAL                         | (Y) N                 |           |
| DOES THIS MATERIAL REQUIRE<br>ENGINEERING SIGN OFF | Y (N)                 |           |
| DOES THIS REQUIRE AN<br>EXTRUSION REPORT           | Y (N)                 |           |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.<br>RECORD RESULTS BELOW |     |     |       |       |  |
|------------------------------------------------------------------------------------|-----|-----|-------|-------|--|
| TYPE OF MATERIAL                                                                   | HRC | HRB | DUR A | DUR D |  |
| SIZE OF TEST SAMPLE                                                                |     |     |       |       |  |
| HARDNESS / DUROMETER READING                                                       |     |     |       |       |  |

testers located in the Quality Office

|                          |                                          |
|--------------------------|------------------------------------------|
| <b>QC 18 INSPECTION</b>  | <b>ENGINEERING SIGNOFF (if required)</b> |
| INSPECTED BY: <u>CB</u>  | SIGNED OFF BY: _____                     |
| DATE: <u>JUN 13 2017</u> | DATE: _____                              |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SHEET  
ANNEALED

SPECIFICATION: MIL-S-5059  
OR AMS 5513 (304)  
OR AMS 5524 (316)  
OR ASTM A240  
OR ASME SA240

FINISH:

| FINISH            | DART M-NUMBER IDENTIFIER |
|-------------------|--------------------------|
| UNPOLISHED No. 1  | 1P                       |
| UNPOLISHED No. 2D | 2D                       |
| UNPOLISHED No. 2B | NONE                     |
| POLISHED No. 3    | 3P                       |
| POLISHED No. 4    | 4P                       |
| BUFFED No. 6      | 6P                       |
| BUFFED No. 7      | 7P                       |
| BUFFED No. 8      | 8P                       |

PART NUMBER: M304S TT GA #P  
GA

WHERE "TT" = GAUGE THICKNESS  
WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA  
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

| GAUGE | NOM. THICK.<br>(IN) | THICKNESS<br>RANGE (IN) |
|-------|---------------------|-------------------------|
| 26    | 0.01875             | 0.0178 - 0.019          |
| 25    | 0.021875            | 0.0199 - 0.023          |
| 24    | 0.025               | 0.024 - 0.026           |
| 23    | 0.028125            | 0.027 - 0.029           |
| 22    | 0.03125             | 0.030 - 0.032           |
| 21    | 0.034375            | 0.033 - 0.035           |
| 20    | 0.0375              | 0.036 - 0.040           |
| 19    | 0.04375             | 0.041 - 0.046           |
| 18    | 0.050               | 0.047 - 0.052           |
| 17    | 0.05625             | 0.053 - 0.058           |
| 16    | 0.0625              | 0.059 - 0.065           |
| 15    | 0.0703125           | 0.066 - 0.072           |
| 14    | 0.078125            | 0.073 - 0.083           |
| 13    | 0.08375             | 0.084 - 0.098           |
| 12    | 0.109375            | 0.099 - 0.114           |
| 11    | 0.125               | 0.115 - 0.130           |
| 10    | 0.140625            | 0.131 - 0.145           |
| 9     | 0.15625             | 0.146 - 0.160           |
| 8     | 0.171875            | 0.161 - 0.176           |
| 7     | 0.1875              | 0.182 - 0.194           |
| 6     | 0.2031              | 0.194 - 0.212           |
| 5     | 0.2188              | 0.201 - 0.228           |
| 4     | 0.2344              | 0.225 - 0.243           |
| 3     | 0.2500              | 0.238 - 0.262           |
| 2     | 0.2656              | 0.254 - 0.278           |
| 1     | 0.2813              | 0.269 - 0.293           |
| 0     | 0.3125              | 0.301 - 0.325           |

RELEASED

2015 FEB 04

ECN 15-522 47

|            |                                                                                              |                                                                                                                                                                                                                                                                               |              |
|------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| D          | ADDED GAUGES 0-7.                                                                            | AJS                                                                                                                                                                                                                                                                           | 15.01.06     |
| C          | DEFINED FINISH OPTION (ZN C8) AND EXAMPLE OF MATERIAL P/N WITH FINISH OTHER THAN 2B (ZN B5). | MB                                                                                                                                                                                                                                                                            | 12.09.20     |
| B          | REFORMAT DWG. ADD ASTM/ASME SPECS (ZN D8-1). ADD GAUGE REF (C8-1), REF PAR 08-020A           | CP                                                                                                                                                                                                                                                                            | 09.06.01     |
| A          | NEW ISSUE                                                                                    | DS                                                                                                                                                                                                                                                                            | 01.09.24     |
| REV.       | DESCRIPTION                                                                                  | BY                                                                                                                                                                                                                                                                            | DATE         |
| DESIGN     | DS                                                                                           | DART AEROSPACE LTD<br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                             |              |
| DRAWN      | AJS                                                                                          |                                                                                                                                                                                                                                                                               |              |
| CHECKED    |                                                                                              | DRAWING NO.                                                                                                                                                                                                                                                                   | REV. D       |
| MFG. APPR. |                                                                                              | M304S                                                                                                                                                                                                                                                                         | SHEET 1 OF 1 |
| APPROVED   |                                                                                              | TITLE                                                                                                                                                                                                                                                                         | SCALE        |
| DE APPR.   |                                                                                              | 304/316 SS SHEET                                                                                                                                                                                                                                                              | NTS          |
| DATE       | 15.01.06                                                                                     | COPYRIGHT © 2001 BY DART AEROSPACE LTD<br>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED IN ANY FORM OR BY ANY MEANS WITHOUT WRITTEN PERMISSION OF DART AEROSPACE LTD. |              |